

ABSTRACT

The invention provides a simple to implement and reliable recognition of the moment at which insulation trenches reach the buried insulating layer during an etch process. The technological reliability during the etching of such trenches is increased, the production of refuse is prevented, and costs are reduced. To these ends, the invention provides a test structure for verifying an insulation trench etching in an SOI wafer. After an etching of insulation trenches, this the test structure has a row of connected islands, whereby each island is surrounded by a trench. This trench has a different width from island to island (A, B; B, C) while including a trench width that appears the form of an insulation trench in an active circuit. A section of the surrounding trench (a, b) of each island (A, B) forms a common piece with the trench of adjacent islands. The respective section has, in the inner islands, the width of the adjacent trench having the next larger or the next smaller measure of width in the row.